"Waters of the United States" Under the Clean Water Act: Scientific Challenges After Rapanos

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Overview of Presentation

- "Waters of the US" and the Rapanos opinions
 - -Legal and regulatory background
- EPA/Corps Joint Guidance on Rapanos
 - -Current agency practice
- Technical and Scientific Challenges
 Posed by Rapanos

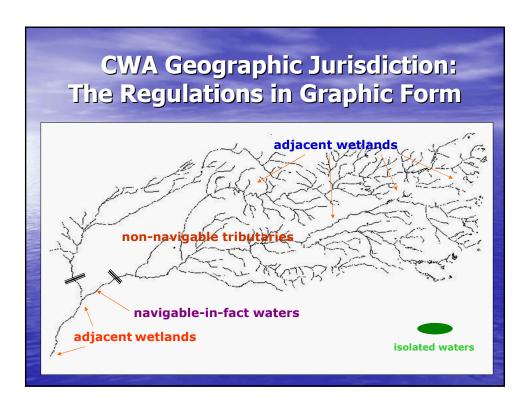
Clean Water Act Jurisdiction

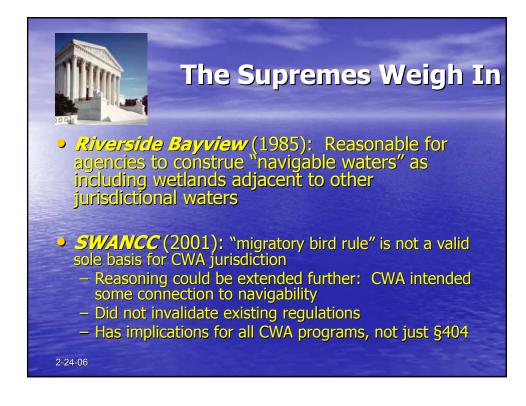
- CWA covers "navigable waters," defined in the statute as "waters of the US and territorial seas"
- "waters of the US" further defined by agencies at 40 CFR 230.3 etc.
 - Further discussed in preambles, including "migratory bird rule"

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Jurisdictional Regulations

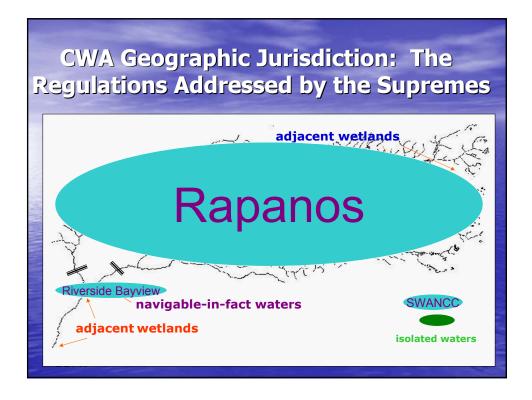
- Waters used/historically used/susceptible to use in interstate commerce
- Interstate waters and wetlands
- All other waters such as intrastate lakes, rivers, streams, wetlands, etc., the use, degradation, or destruction of which could affect interstate commerce
 - So called "(a)(3)" reg
- Impoundments of waters of the US
- Tributaries of above waters
- Territorial seas
- Wetlands adjacent to above waters





More Supremes: Rapanos and Carabell

- Issues: does CWA cover non-navigable tributaries and their adjacent wetlands?
- Result: nine justices and five opinions, with none having a majority of votes. Remanded.
 - Plurality/Scalia: JD if relatively permanent or seasonal rivers, or wetlands with continuous surface connection to such waters.
 - Kennedy: wetlands and waters are JD if "significant nexus" to navigable waters (individually or cumulatively), affecting phys/chem/bio of navigable waters.



Post-Rapanos Litigation

- Decisions thus far: 6 Appellate, 6 district court, 3 cert petitions rejected by Supremes
- Gov't position: CWA jurisdiction may be established by satisfying either plurality standard or Kennedy standard
 - Roughly 35 government court filings in 20+ cases (thus far)

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Interagency *Rapanos* **Guidance**

- On June 5, 2007, EPA and the Corps issued guidance interpreting WUS after Rapanos.
- Addresses 3 categories of waters
 - Traditional navigable waters and their adjacent wetlands
 - Waters that satisfy the Scalia standard (i.e., relatively permanent)
 - Waters that satisfy the Kennedy standard (i.e., significant nexus)
- Available on EPA website:
 2-2÷0
 www.epa.gov/owow/wetlands

Interagency *Rapanos* **Guidance: Traditional Navigable Waters**

- The agencies will assert jurisdiction over:
 - -traditional navigable waters (TNWs)
 - •TNWs include all waters described as (a)(1) waters navigable-in-fact, ebb/flow tide, etc.
 - Not just RHA section 10 waters
 - Wetlands adjacent to TNWs, including those without a continuous surface connection to TNWs.

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Interagency *Rapanos* Guidance: Relatively Permanent Waters

- The agencies will assert jurisdiction over:
 - Non-navigable tributaries of TNWs that are relatively permanent
 - Includes perennial streams as well as tributaries that have continuous flow at least seasonally
 - Wetlands that have a continuous surface connection to such tributaries (i.e., not separated by berm, etc.)

Interagency Rapanos Guidance: Other Tributaries and Wetlands

- The agencies will assert jurisdiction over:
 - -Non-navigable, non relatively permanent tributaries and their adjacent wetlands where they have a significant nexus to a TNW
 - Either individually or in combination with similarly situated waters
- Significant nexus includes consideration of both hydrologic and ecologic factors

Interagency Rapanos Guidance: **Related Documents and Next Steps**

- Related documents include
 - -Jurisdiction form to operationalize guidance
 - -Coordination Memorandum, to ensure effective and timely interagency coordination
- Agencies taking public comment until 12/07 on implementation experiences (<u>www.regulations.gov</u>)

Scientific Challenges Posed by Rapanos

- Rapanos opinions use jurisdictional terms different from those typically used by aquatic scientists.
 - "Relatively permanent"
 - "Significant nexus"
 - "Similarly situated"
- Challenge: does a particular water have the characteristics called for by the legal terms, as defined by the agencies and the 2.24 courts?

Jurisdictionally Relevant Characteristics

- Question after Rapanos: does a water have characteristics that address the legal standard? For example:
 - A water's contribution to physical/chemical/ biological integrity downstream
 - A water's frequency and volume of flow
 - Data on other waters and wetlands in the area

Jurisdictionally Relevant Characteristics, Continued

- Decision if particular water has characteristics called for by legal standard would ideally be based on multiple-year observations, but neither field staff nor the regulated community can wait that long.
- Scientific analyses and technical info can assist field staff to defensibly leverage observations.

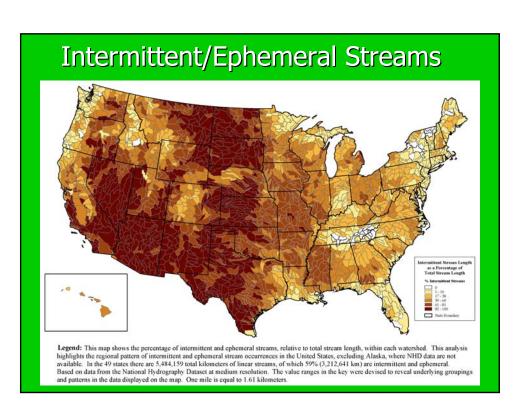
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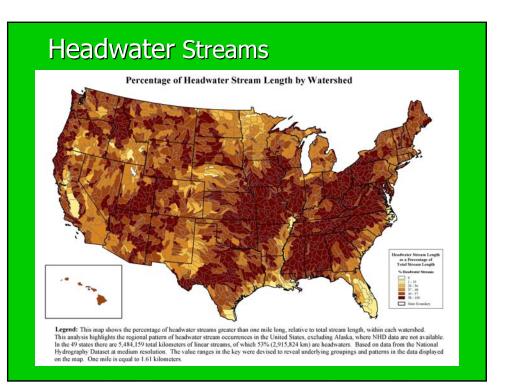
Classification Systems Can Help Leverage Observations

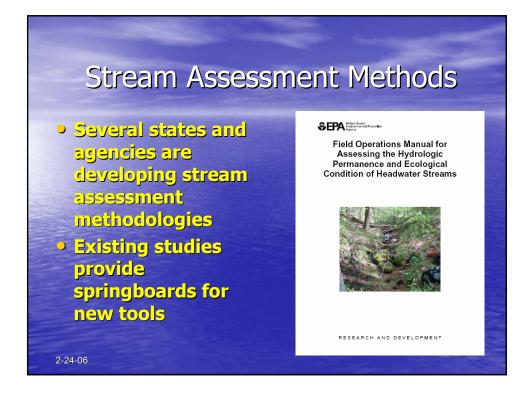
- Many classification systems are used to identify and compare potentially similar waters, such as
 - Stream order: streams of similar order may have similar functions in the landscape.
 - <u>Stream classification</u>: may allow extrapolation of site-specific data to stream reaches with similar characteristics
 - Wetland classification: identifies functions and values of various types of wetlands in different landscapes

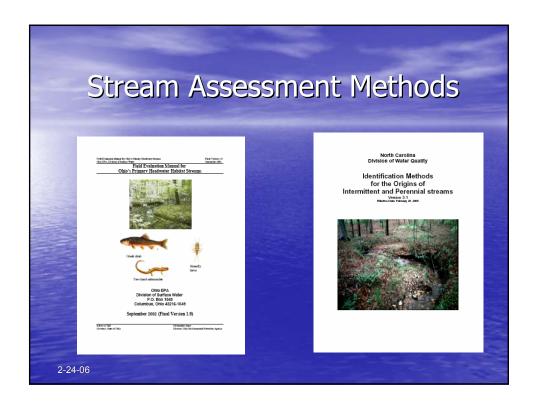
National and Local Databases Also Can Leverage Observations

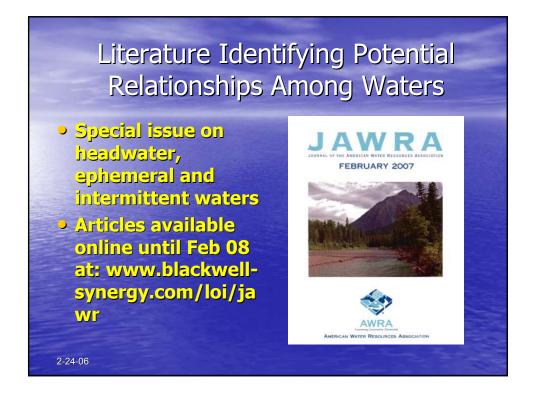
- Numerous national and local databases identify location and some characteristics of waters. Examples: NHD and NWI
- Other information sources can leverage and enhance observations and available hydro data
 - Aerial photography, USGS maps, TMDL lists
- Consider strengths and limitations of available data
 - NHD at 1:100k does not include smaller waters
 - Does the database term match the legal term? (often not)
 - 224How old is that map?











Suggestions When Leveraging Observations for *Rapanos* Decisions

Terms matter.

- Rapanos identifies legal concepts, further defined by agencies and the courts. Those concepts might vary from scientific usage
- Databases use terms differently. Verify that databases characteristics coincide with relevant legal concepts

Sgale matters.

- The more detailed and specific literature and data is to the waterbody or geographic area, the stronger the conclusions will be about characteristics and relationships
- Relationships among waters matters a lot.
 - Anticipate expanded data and research on relationships among waters and navigable-in-fact waters

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Questions?

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